PATENT COOPERATION TREATY

From th	ne NATIONAL SEARCHIN	NG AUTHOR	RITY		ANG	
То:					PCT PCT	
					RITTEN OPINION OF THE CIONAL SEARCHING AUTHORITY	
					(PCT Rule 43bis.1)	
				Date of mailing (day/month/year)	See form PCT/ISA/210	
Applica	ant's or agent's file reference	ce		FOR FURTHER	ACTION	
B61	.58PCT			See paragraph 2 below		
Internat	tional application No.		International filing date ((day/month/year)	Priority date (day/month/year)	
PCI	/FR2004/0505	584	12.11.2004		25.11.2003	
Applica	B43/04, F150		·	<u> </u>		
1.	This coining contains in	dications rela	ting to the following items			
1.				5:		
	Box No. I	Basis of the	opinion			
	Box No. II	Priority				
	Box No. III	Non-establis	shment of opinion with reg	gard to novelty, invent	ive step and industrial applicability	
i 1	Box No. IV	Lack of unit	ty of invention			
	Box No. V			s.1(a)(i) with regard to novelty, inventive step or industrial ons supporting such statement		
	Box No. VI	Certain docu	iments cited			
 	Box No. VII	Certain defe	ects in the international app	plication		
	Box No. VIII	Certain obse	ervations on the internation	nal application		
2.	FURTHER ACTION					
-	Il be considered to be a written opinion of the ply where the applicant chooses an Authority other eau under Rule 66.1 bis(b) that written opinions of					
	written reply together, PCT/ISA/220 or before t	where approp the expiration	oriate, with amendments, of 22 months from the pri	before the expiration	A, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.	
	For further options, see I	Form PCT/ISA	₹/220.			
3.	For further details, see no	otes to Form F	PCT/ISA/220.			
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Name a	nd mailing address of the I	SA/EP		Authorized officer		
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Box	No. I	Basis of this opinion
1.	With filed.	regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
	a.	type of material
	ĺ	a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
	[filed together with the international application in computer readable form.
	[furnished subsequently to this Authority for the purposes of search.
_		
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additi	ional comments:
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		·

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Box	i No. V			ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement				
	Novelty (N)		Claims	7, 8	YES
			Claims	1-6, 9	. NO
	Inventive	step (IS)	Claims	7, 8	YES
			Claims	1-6, 9	NO
	Industrial	applicability (IA)	Claims	1-9	YĖS
			Claims	none	NO
1					

2. Citations and explanations:

Concerning point V.

- 1. Reference is made to the following documents:
 D1: US 6 106 245 A (CABUZ CLEOPATRA) 22 August
 2000 (2000-08-22)
- 2. INDEPENDENT CLAIM 1
- 2.1 The present application fails to comply with the requirements of PCT article 33(1) since the subject matter of claim 1 does not fulfil the criterion of novelty defined in PCT Article 33(2). Document D1 describes (see figures 1 and 2; the references in parentheses apply to this document): Pump comprising:
 - a cavity (29) formed in an insulating substrate (21), the top part of the substrate located in proximity to the cavity constituting an edge, a conductive layer (25) covering the inside of the cavity up to the edge and possibly covering the edge,
 - a flexible membrane (23), composed of a conductive material, placed over the cavity (29) and resting

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Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

on the edge,

a dielectric layer (27) covering the conductive layer or the membrane (27) so as to insulate the portions of the conductive layer and the membrane that are close to each other,

at least one ventilation duct (43) formed in the insulating substrate (21) that opens into the cavity through an opening (43) in the conductive layer, and

terminals (39, 41) for applying a voltage between the conductive layer (23) and the membrane (25).

3 INDEPENDENT CLAIM 9

3.1 The present application fails to comply with the requirements of PCT Article 33(1) since the subject matter of claim 9 does not satisfy the criterion of novelty defined in PCT Article 33(2).
Document D1 describes (see figure 5; the references in

Method for operating a pump according to claim 3, wherein a voltage is applied at regular or irregular intervals between said terminals (39, 41).

4 DEPENDENT CLAIMS 2-6

parentheses apply to this document):

The claims do not contain any features which, combined with the features of any claim to which they refer, satisfy the requirements of the PCT with regard to novelty and inventive step (PCT Article 33 (2) and (3)).

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Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 5 INDEPENDENT CLAIM 7
- Document D1, which is considered to represent the most relevant prior art, describes (see column 5, lines 7-28; the references in parentheses apply to this document) a method for producing a pump, from which the subject matter of independent claim 7 differs in that:

 the production method is carried out by forming and eliminating a sacrificial layer.
- 5.1.1 The subject matter of claim 7 is therefore novel (PCT Article 33(2).
- The problem to be solved by the present invention may be considered as having a method that can also be also applied to an element for an integrated circuit.
- 5.1.2 The solution to this problem proposed in claim 7 of the present application is considered to involve an inventive step (PCT Article 33(3), for the following reasons:

 there is no reference in D1 to an application in the field of integrated circuits.
- 5.1.3 Claim 8 depends on claim 7 and therefore also satisfies, as such, the requirements of the PCT with regard to novelty and inventive step.